

LYMAN Telescopic Sights

THIS LYMAN 5A TELESCOPE is one of a series of telescopic sights which will be brought out from time to time. The workmanship, quality and careful assembling is guaranteed by the organization that has made LYMAN METALLIC SIGHTS for 50 years.

Precise optical instruments such as the Lyman 5A Telescopic require exact component parts. Compound achromatic lenses made by The Bausch and Lomb Optical Company are used, insuring to the purchaser of a Lyman 5A Scope a view of the field free from color fringe at the edges. Eye strain has been reduced to a minimum.

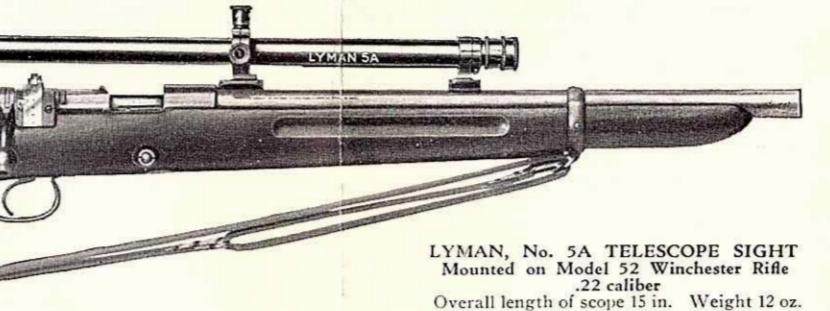
LYMAN Telescopic Rifle Sight

The Lyman Telescopic rifle sight represents an optically and mechanically correct combination of the features essential to a practical and satisfactory magnifying sight. It meets fully the need of all shooters for a dependable, clear vision, large field, magnifying sight, for indoor and outdoor shooting.

A telescope sight assures clearer vision by bringing the target and the sight into the same focus. It forms an image of the target on the reticule. Both target and sight are thus brought to the same point and the eye is enabled to focus on both at once without strain. A magnifying lens, the ocular, between the reticule and the eye, magnifies both target and reticule, thus giving extreme accuracy in sighting with minimum effort.

To make perfect shooting possible a telescope sight must be correctly made with accurate devices for proper adjustment of the lenses to the eye, for windage, and for elevation.

The Lyman 5A Telescopic Sight which is made in 5-power only, meets fully all these requirements. It is adaptable to all makes and styles of rifles. It is used by a large proportion of the leading shooters in N. R. A. indoor and outdoor matches and in general competition.



LYMAN, No. 5A TELESCOPE SIGHT
Mounted on Model 52 Winchester Rifle
.22 caliber
Overall length of scope 15 in. Weight 12 oz.

THE ADVANTAGES OF A TELESCOPIC SIGHT

All lenses in the Lyman Telescope Sight are of the compound achromatic type, which eliminates color fringes and gives a wide, brilliant field, covering a diameter of 18 feet per 100 yards of range.

The relief, or distance between the eye and eye-piece when sighting, is sufficient to prevent injury by the recoil of the rifle. These are some of the distinctive features you find in Lyman Telescope Sights.

SLIDING TUBE OF TELESCOPE TAKES UP RECOIL

One of the features of the Lyman Telescope Sight is the "sliding tube." The tube is so held in the rear mount as to allow it to slide with the recoil of the gun. So it avoids the constant shock to which it would be ex-

posed if held rigidly. By this arrangement the lenses are effectively protected from breakage and from being thrown out of their seats by the repeated jarring of the recoil. It also helps to prevent any injury to the eye by recoil.

METHOD OF ADJUSTING LYMAN 5A SCOPE.

1. For Individual Eye: With the telescope pointed skyward, adjust the rear or eye lens until the cross wires appear and stay black, making sure after several minutes of trial that the wires continue to stay black and that the eye is not accommodating itself to an incorrect setting. When this adjustment is once made and locked with nut, it should not be changed unless the eye itself changes materially. The permanent ocular setting is an exclusive Lyman feature in these scopes.

2. For Definite Distance:

FIRST. Refer to table of Proper Settings of Front Adjusting Sleeve (page 11). These tables are approximate from which the user of the scope can readily make necessary corrections for individual eyesight.

SECOND. Loosen the front lens adjusting sleeve cap.

THIRD. Turn the graduated sleeve to the desired range.

FOURTH. Lock the Front Lens Adjusting Sleeve. UNLESS THE ADJUSTING SLEEVE CAP HAS BEEN LOCKED NO ADJUSTMENT HAS BEEN MADE.

If the shooter finds that the scope is still out of focus, this is due to individual eyesight and may be corrected by moving the Front Adjusting Sleeve forward or backward slightly.

3. Proper determination of eye relief by the shooter is easily accomplished by locating the rear of the scope the proper distance from the usual shooting position of the eye in order to give full vision of the field.



View at forward end of scope showing graduated adjusting sleeve which easily sets the non-rotating objective lens for perfect focus. Outer cap locks sleeve when adjusted.

SIX STYLES OF RETICULES

Reticules are made in six different styles for Lyman Telescope Sights. The standard style has single cross hair with wire .001" diameter. We recommend this for all around use unless shooter has some special requirement in mind.

If shooter will use scope mostly for fine target work, we recommend reticule with extra fine wire .0007" diam. and this should be specified when ordering. No extra charge.

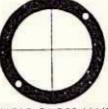
When aperture reticles are ordered the range and size of the bullseye for which they are to be used should be given.

Unless otherwise specified we will furnish them in a size suitable for an 8-inch bullseye at 200 yards.

IMPORTANT

When ordering new reticules, be sure to give the serial number of telescope, which will be found just forward of manufacturer's name on tube. We must have this information in order to supply correct design of reticule.

Styles of Reticules



LYMAN TELESCOPIC SIGHT MOUNTS

Mounts are light and well shaped without the sacrifice of strength. The front mount is designed to give the tube a bearing on a convex surface instead of on rivets or screws, thereby preventing injury to the tube when using heavy loads. A spring plunger in the front mount engages with a rib on the under side of the tube and keeps it from rotating, but permits the required sliding movement.

The rear mount is designed to allow for elevation and windage adjustment for different ranges. Two springs, one exerting pressure vertically, the other horizontally, hold the tube in contact with the elevation and windage screws. These are micrometer screws reading to .001 of an inch, with division markings in white. Both elevation and windage screws have the new click feature. These clicks can be distinctly heard and felt, registering a point of impact change of $\frac{1}{4}$ minute of angle or $\frac{1}{4}$ of an inch at 100 yards. This is an exclusive feature of these mounts. The sight can be removed from the barrel without changing elevation or windage adjustment.

The bases for both front and rear mounts are of steel, having a dovetail cross section, and are set out drilled and countersunk with screws for attaching them to the barrel. If the bases are $7\frac{1}{8}$ inches apart "on centers" a change of one vertical line division in either elevation or windage adjustment will move the center of impact on the target one-half inch per 100 yards of range. There are twice as many clicks as vertical line divisions. If the bases are six inches on centers, the corresponding change per vertical line division is $\frac{3}{5}$ ths of an inch for 100 yards of range or .15 inch at 75 feet.

HOW TO ZERO CLICK MOUNT

To zero the Click Mount after targeting your rifle for shortest range, first tighten the windage and elevation screw locking screw in the frame. Second, loosen graduated sleeve set screws and turn these graduated sleeves until the zero lines coincide. Third, tighten graduated sleeve set screws and loosen the windage and elevation screw locking screw.

The windage and elevation screw locking screw on the frame, and the graduated sleeve set screws when tight, serve to prevent unintentional change of sight settings.

TO REMOVE RETICULE FROM TELESCOPE

Reticule (Cross Hairs, etc.)—Remove the reticule holder retaining screw, situated on the left side of tube near the rear end. By taking out the two small screws securing it to the reticule holder, the reticule holder may then be shaken out rearward by holding the tube vertically. If it sticks, rap the end of the

tube gently on a smooth wood surface. After removing the reticule holder from the tube, the reticule disc may be removed. In replacing the reticule holder in the scope be sure the reticule disc with wires attached is placed toward the forward end of the telescope, away from the eye.



WHEN ORDERING

When ordering always give the make and model of rifle to which the telescope is to be attached in order that the proper bases may be furnished.

OFFSET ADAPTERS

By the use of Lyman Offset Adapters a Lyman Telescope Sight can be attached to a rifle so that it will lie over to left side of the barrel instead of on top.

This change in the location of the telescope is made possible by the use of the Offset Adapters without requiring any change in the sight bases attached to the top of the barrel or in the mounts of the telescope. This makes it a simple matter to attach a Lyman telescope to the side of the barrel of a top ejection repeating rifle or to the top of the barrel of a single shot rifle without any change in the style of mounts or bases. Furnished where desired or required at reasonable extra cost.



Telescope Mounted with Offset Adapters

PROPER SETTINGS OF FRONT ADJUSTING SLEEVE for VARIOUS RANGES

This table shows the proper settings of the front adjusting sleeve for various ranges on Lyman, No. 5A, Telescope Sights graduated from 75 feet to 200 yards and over.

Always start at zero and screw sleeve towards the rear.

Ranges	Turns	Divisions
75 ft.	0	0
100 ft.	0	3 $\frac{1}{2}$
50 yds.	0	7 $\frac{1}{2}$
100 yds.	1	1 $\frac{1}{2}$
200 yds.	1	3 $\frac{1}{2}$

From two hundred yards up the focus of the Objective Lens is universal and therefore requires no change in adjustment.

The adjustment of the objective lens need not be disturbed for any range in game shooting, as when adjusted for a mean ordinary range the slight aberration due to change to shorter or longer range is negligible except for fine target shooting.

Strong, well finished leather cases for safe, convenient carrying of Lyman Telescope Sights can also be furnished.

WINDAGE AND ELEVATION VALUES FOR LYMAN 5A TELESCOPIC SIGHT

Range	7.2 (7 $\frac{1}{8}$) inches Between Mounts Each Click Inches	6 inches Between Mounts Each Click Inches
50 Feet	.039	.05
25 Yards	.062	.075
50 Yards	.125	.15
100 Yards	.25	.3
200 Yards	.5	.6
300 Yards	.75	.9
400 Yards	1.	1.2
500 Yards	1.25	1.5
600 Yards	1.5	1.8
700 Yards	1.75	2.1
800 Yards	2.	2.4
900 Yards	2.25	2.7
1000 Yards	2.50	3.

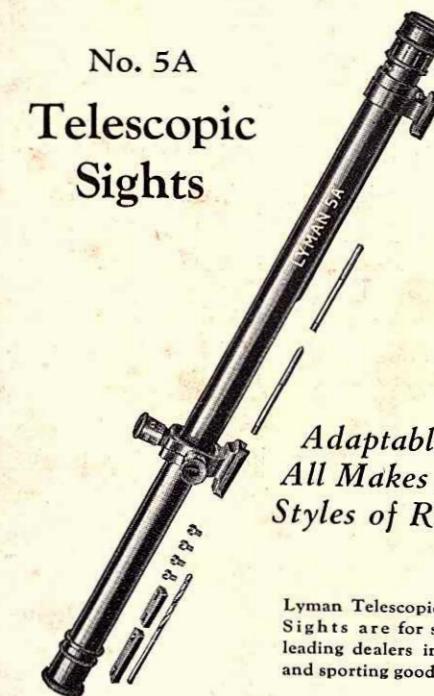
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LYMAN

No. 5A Telescopic Sights



Lyman Telescopic Rifle Sights are for sale by leading dealers in guns and sporting goods.

Manufactured by the
Lyman Gun Sight Corporation
Middlefield, Conn., U. S. A.